

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
25 August 2005 (25.08.2005)

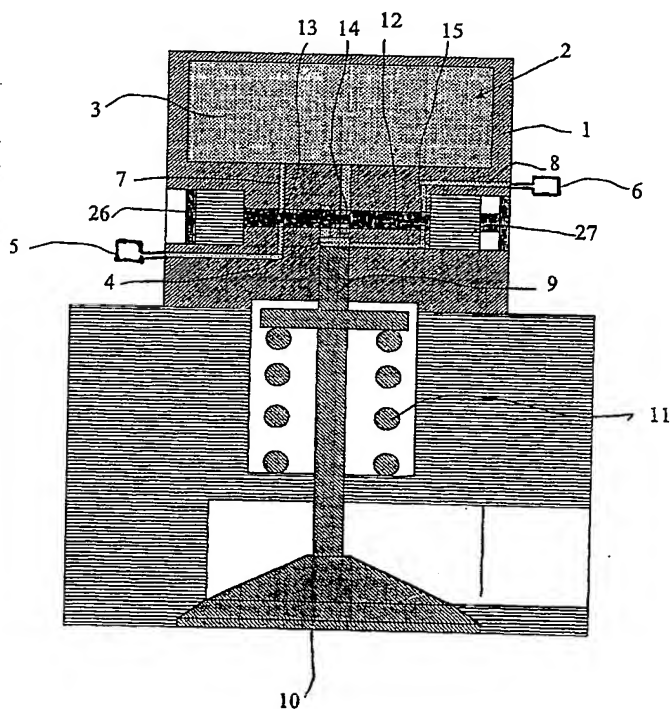
PCT

(10) International Publication Number
WO 2005/078245 A1

- (51) International Patent Classification⁷: **F01L 9/02** (74) Agent: **DR LUDWIG BRANN PATENTBYRÅ AB**; Box 17192, S-104 62 Stockholm (SE).
- (21) International Application Number: **PCT/SE2005/000212** (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 17 February 2005 (17.02.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0400390-1 18 February 2004 (18.02.2004) SE
- (71) Applicant (*for all designated States except US*): **CARGINE ENGINEERING AB** [SE/SE]; Kompanigatan 10, 1 tr, S-254 38 Helsingborg (SE).
- (72) Inventor; and (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
- (75) Inventor/Applicant (*for US only*): **HEDMAN, Mats** [SE/SE]; Båvensvik, S-640 34 Sparreholm (SE).

[Continued on next page]

(54) Title: A METHOD OF GENERATING PRESSURE PULSES, A PRESSURE PULSE GENERATOR AND A PISTON ENGINE PROVIDED THEREWITH



(57) Abstract: A pressure pulse generator, comprising a pressure pulse transmitting body, a chamber, divided into a first and a second part, a first conduit that leads between a high pressure source and the first part of the chamber, a second conduit that leads between a low pressure source and the second part of the chamber, said body being displaceably arranged in the second part of the chamber and being in contact with, on one hand, a pressure fluid in the chamber, and, on the other hand, with the environment and being spring loaded in a direction towards the chamber. The pressure pulse generator comprises means for opening/interrupting the communication between the first part of the chamber and the high pressure source, and means for opening/interrupting the communication between the second part of the chamber and the low pressure source, and an operable valve body for opening/interrupting the communication between the first and second parts of the chamber.



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*